



May 19, 2015

BIO-MICROBICS INCORPORATED
AMANDA RENNER
8450 COLE PARKWAY
SHAWNEE KS 66227

Re: Description: SEWAGE TREATMENT APPARATUS (Tier 3- downsizing & vertical separation credit)
Manufacturer: BIO-MICROBICS INCORPORATED
Product Name: BIOBARRIER
Model Number(s): 0.5, 1.0 AND 1.5
Description: BioBarrier® Membrane BioReactor (MBR)
0.5 = 500 GPD max flow, 375 GAL min. settling zone, 500 GAL min treatment zone
1.0 = 1000 GPD max flow, 700 GAL min. settling zone, 1000 GAL min treatment zone
1.5 = 1500 GPD max flow, 1050 GAL min. settling zone, 1500 GAL min treatment zone
Product File No: 20140136

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of May 2020.

This approval is contingent upon compliance with the following stipulation(s):

- This product must be sized based on daily wastewater flow (gallons per day). The gallons per day value must be at least 150 gallons per day per bedroom.
- Installation and servicing of this product must be in accordance with the manufacturer's instructions. A copy of the manufacturer's installation and servicing instructions must be given to the owner of the system.

• **TABLE 1**
MAINTENANCE, INSPECTION, PUMPING REQUIREMENTS
BIO-MICROBICS
(BIOBARRIER® MODEL 0.5, 1.0, 1.5)

Initial/Startup Inspection/ Maintenance: Two-year service policy.
Routine Inspection/Maintenance: See service manual for maintenance procedures.
Maintenance frequency should be conducted as required by local regulation.
Ongoing Pumping Cycle And/Or Requirements: Pumping interval related to depth of
of sludge when necessary; or as per local requirements.
NSF 40 Effluent Standard NSF 40 Class 1 Effluent Standard
NSF 245 Nitrogen Reduction Standard
NSF 350 Water Reuse Treatment Standard Class R
BOD5 Credit For Downsizing Distribution Area YES
Fecal Credit For Reduction Of Vertical Separation YES
Additional Comments: See manufacturer's instructions for prohibitions of chemical
substances introduction

- This product must be installed in state-approved sewage treatment tanks approved by this department for use with this product.
- When this product receives wastewater from dwellings, it will produce an effluent quality with a maximum monthly average value for BOD5 of less than or equal to 30 mg/L, TSS of less than or equal to 30 mg/L TSS and F.O.G. of less than 30 mg/L and fecal coliform of less than or equal to 10,000 cfu/100ml.
- Based on testing data submitted and reviewed by the department, this approval recognizes that this treatment product will reduce the average concentration of Total Nitrogen up to 79% when a third chamber or tank is utilized per manufacturer's specifications.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen Jones, M.S.
POWTS Product Reviewer
phone: (608) 267-5265
fax: (608) 267-9723
email: glen.jones@wi.gov

The DSPS is committed to service excellence. Visit our survey at:

www.surveymonkey.com/s/dspsiscustomersatisfaction